

## ABSTRACT OF THE DISCLOSURE

Methods for routing optical beams are provided. One such method for routing a first optical beam comprises: providing a first mirror and a second mirror, both of which are steerable; providing a second optical beam; propagating the first optical beam such that the first optical beam is reflected by the first mirror prior to being reflected by the second mirror; propagating the second optical beam such that the second optical beam is reflected by the second mirror prior to being reflected by the first mirror; and orienting the first mirror and the second mirror such that the first and second optical beams are coincident at both the first mirror and the second mirror. Systems also are provided.